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SERIAL NUMBER	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
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08/154,989 11/18/93 KRONZER

J 45751USA8B

LEWIS A EXAMINER

F3M1/1005

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ART UNIT	PAPER NUMBER
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3307

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DATE MAILED: 10/05/94

This is a communication from the examiner in charge of your application.
COMMISSIONER OF PATENTS AND TRADEMARKS

☒ This application has been examined ☐ Responsive to communication filed on _____ ☐ This action is made final.

A shortened statutory period for response to this action is set to expire 3 month(s), 0 days from the date of this letter.
Failure to respond within the period for response will cause the application to become abandoned. 35 U.S.C. 133

Part I THE FOLLOWING ATTACHMENT(S) ARE PART OF THIS ACTION:

- | | |
|---|--|
| 1. <input checked="" type="checkbox"/> Notice of References Cited by Examiner, PTO-892. | 2. <input checked="" type="checkbox"/> Notice of Draftsman's Patent Drawing Review, PTO-948. |
| 3. <input checked="" type="checkbox"/> Notice of Art Cited by Applicant, PTO-1449(2) | 4. <input type="checkbox"/> Notice of Informal Patent Application, PTO-152. |
| 5. <input type="checkbox"/> Information on How to Effect Drawing Changes, PTO-1474. | 6. <input type="checkbox"/> _____ |

Part II SUMMARY OF ACTION

1. ☒ Claims 25-34 are pending in the application.

Of the above, claims _____ are withdrawn from consideration.

2. ☒ Claims 1-24 have been cancelled.

3. ☐ Claims _____ are allowed.

4. ☒ Claims 25-34 are rejected.

5. ☐ Claims _____ are objected to.

6. ☐ Claims _____ are subject to restriction or election requirement.

7. ☐ This application has been filed with Informal drawings under 37 C.F.R. 1.85 which are acceptable for examination purposes.

8. ☐ Formal drawings are required in response to this Office action.

9. ☐ The corrected or substitute drawings have been received on _____. Under 37 C.F.R. 1.84 these drawings are ☐ acceptable; ☐ not acceptable (see explanation or Notice of Draftsman's Patent Drawing Review, PTO-948).

10. ☐ The proposed additional or substitute sheet(s) of drawings, filed on _____, has (have) been ☐ approved by the examiner; ☐ disapproved by the examiner (see explanation).

11. ☐ The proposed drawing correction, filed _____, has been ☐ approved; ☐ disapproved (see explanation).

12. ☐ Acknowledgement is made of the claim for priority under 35 U.S.C. 119. The certified copy has ☐ been received ☐ not been received ☐ been filed in parent application, serial no. _____; filed on _____.

13. ☐ Since this application appears to be in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11; 453 O.G. 213.

14. ☐ Other

EXAMINER'S ACTION

The following is a quotation of 35 U.S.C. 103 which forms the basis for all obviousness rejections set forth in this Office action:

A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Subject matter developed by another person, which qualifies as prior art only under subsection (f) or (g) of section 102 of this title, shall not preclude patentability under this section where the subject matter and the claimed invention were, at the time the invention was made, owned by the same person or subject to an obligation of assignment to the same person.

Claims 25-34 are rejected under 35 U.S.C. 103 as being unpatentable over Dyrud et al.('619) in view of Thiebault.

As to claim 25, Dyrud et al.('619) disclose a fibrous face mask (figs.1-3) for filtering contaminants and/or particulate matter, which comprises: a means (12) for securing the mask to the face of a wearer; and a non-woven fibrous layer (disclosed as a shaping layer) attached to the securing means and containing at least about 40% weight thermally bonding fibers based on the weight of the fibers in the non-woven fibrous layer, at least about 10% weight of the fibers in the non-woven layer being bicomponent fibers, and optionally staple fibers, the non-woven fibrous layer being molded in a cup-shaped configuration. As for the claimed weight ratios of at least 40% weight thermally bonding fibers and at least 10% weight bicomponent fibers in the

non-wovwn layer, applicant is referred to Dyrud et al. (col.4, lines 29-37) which discloses weight ratios ranging from 0% staple fibers:100% bicomponent fibers to 75% staple fibers:25% bicomponent fibers, a range which includes the claimed values of 40% thermally bonding fibers and 10% bicomponent fibers.

The difference between Dyrud et al. and claim 25 is a fuzz value of not less than 7.5.

Thiebault teaches a fibrous face mask (fi.1) which has its fluffy layer smoothed by flattening them using a heated metal mass. The process is done in order to make the mask more comfortable to wear.

It would have been obvious to modify the surface of the mask of Dyrud et al. to flatten the fluffy fibers so that it would be more comfortable to wear as taught by Thiebault.

As for the degree of smoothness expressed as the claimed "surface fuzz value", it is submitted that it would have been obvious to smooth the fibers of Dyrud et al. to any desirable degree including one having a surface fuzz value of not less than 7.5.

As to claim 26, Dyrud et al. as discussed above disclose a wide range of weight percent of fibers making up the non-woven layers which include the claimed weight per cent of fibers. Moreover, Dyrud et al. disclose a plurality of non-woven layers having filtration layer of blown microfibers therebetween (fig.2 and col.6, line 63-col.7, line 20).

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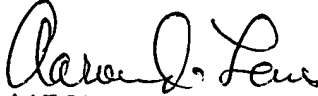
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As to claims 27-31, the particular values of weight per cent of the bicomponent fibers and the particular surface fuzz value in Dyrud et al. as modified by Thiebault can be arrived at through mere routine experimentation and observation with no criticality seen in the particular values being claimed.

The balance of the claims 32-34 appear to be substantially equivalent in scope to claims 25-31 and are included in Dyrud et al. as modified by Thiebault.

Any inquiry concerning this communication should be directed to Aaron J. Lewis at telephone number (703) 308-0716.

Aaron J. Lewis
September 30, 1994


AARON J. LEWIS
EXAMINER
ART UNIT 337